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Fisheries Bulletin

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METRIC SYSTEM

This Fisheries Bulletin, an FAO publication, uses the metric system of units to measure quantities in terms of weight, volume, capacity, length, and area. "Tons" and "quintals", when not specified by a descriptive adjective, therefore mean "metric tons" (1,000 kilograms) and "metric quintals" (100 kilograms), respectively.

In the case of monetary values, the currency units are defined by the adjective but unless otherwise specified the term "dollars" refers to U. S. dollars.

CONVERSION FACTORS

(a) General: Non-metric units to metric units:

Converted from:	To:	Multiplier
Pounds	Metric tons	0.0004536
Hundredweight (112 pounds)	" "	0.050802
Hundredweight (100 pounds)	" "	0.04536
Quintal (112 pounds)	" "	0.050802
Short ton (2,000 pounds)	" "	0.9072
Long ton (2,240 pounds)	" "	1.0161
U.S. gallons	Liters	3.7853
Imperial gallons	"	4.546

(b) Fisheries Products: Capacity and numbers to metric weight units:

Converted from:	To:	Multiplier
Hectoliter (herring)	Metric tons	0.093
Hectoliter (0:1)	" "	0.093

(c) Fisheries Products: "Yield" factors:

Converted from:	To:	Multiplier
Wet-salted cod and allied species	Dried basis	0.66

SYMBOLS USED IN TABLES

. . . Not available	ø Negligible (less than half the quantity unit or value unit used)	- Nil

Fisheries Bulletin

ume II, Number 5 September - October 1949

FISHERIES DIVISION ACTIVITIES

Beginning with this issue, the Fisheries Bulletin will carry short reviews of the activities of FAO's Fisheries Division, with a view to keeping fisheries specialists in government and industry informed on such matters as meetings scheduled and held, new publications, missions, and projects undertaken. This first review covers the months of July and August.

Herring Meeting

An intergovernmental meeting convened by FAO took place at the Hague, 29 August - 2 September. With the Netherlands Government as host, FAO brought together representatives of the major fishing countries of Europe and North America to discuss economic problems related to the production and distribution of herring and allied species. It was decided at the meeting not to take up questions dealing with the European sardine industry.

Belgium, Canada, Denmark, Finland, France, Iceland, the Netherlands, Norway, Sweden, the United Kingdom, and the United States of America, as well as the Economic Commission for Europe and the International Council for the Exploration of the Sea, were represented. Dr. D.J. van Dijk, Chairman and Director of the Marketing Board for Fishery Products, Ministry of Agriculture, Fisheries and Food of the Netherlands, was elected Chairman. Mr. A.J. Aglen, Fisheries Secretary of the Scottish Home Department, United Kingdom and Mr. P.F. Louis, Administrateur principal de l'Inscription maritime (Chef du Secretariat à la Direction des pêches maritimes) of France, were elected Vice-Chairmen. FAO was represented by Mr. A.H. Boerma, European Regional Representative, Mr. G.M. Gerhardsen, Chief of the Economics Branch, Fisheries Division; and Mr. James McAnsh, FAO Regional Economist.

In examining biological and technological factors influencing herring production and the many processes used in its preparation, the meeting placed emphasis on the economic problems of the industry. The loss of many traditional markets, the decline in consumption of herring in certain forms, particularly salted herring, and general trade barriers disrupting international trade were among the topics discussed.

The meeting recommended that market research should be carried on through the FAO secretariat in regions where herring by tradition form a part of the diet. It was further recommended that studies should be made of potential market outlets such as Asia and Africa. As one of the steps in this direction it was recommended that a study also be made of possible methods for processing herring into a form more acceptable to the consumer in these potential markets. It was suggested that FAO consider calling a meeting of fisheries technologists next year to continue an examination of processing methods with a view to encouraging new techniques.

A full report of the meeting is now being prepared and will be available shortly.

Fisheries Meeting at Rome

FAO has called a meeting to be held in Rome 19-24 September 1949 for the purpose of formulating an agreement on the establishment of a Regional Fisheries Council for the Mediterranean area and its contiguous waters. Invitations have been issued to member governments of FAO which are interested in such a Council and also to certain governments which are members of the International Commission for the Scientific Exploration of the Mediterranean Sea, but not of FAO. If at this meeting an agreement should be reached on the establishment of a fisheries council similar to that already set up in the Indo-Pacific area a recommendation would be submitted to the Fifth Session of the FAO Conference in November, following which it would be submitted to governments for acceptance. FAO Headquarters will be represented by Dr. D.B. Finn, Director of the Fisheries Division; Dr. J.L. Kask, Chief of the Biological Branch of the Fisheries Division; and Mr. M.J. Girard, FAO Regional Fisheries Officer for Europe who will act as secretary of the meeting. In connection with the meeting, Dr. Finn has already consulted with officials of Egypt, France, Greece, Iraq, Italy, Lebanon, Syria, Turkey, and the United Kingdom.

Fisheries Abstracting Service

The first issue of the World Fisheries Abstracts is being prepared for publication in November. These Abstracts, which will make readily available reviews of current material on fisheries technology from various parts of the world, are under the supervision of Mr. Mogens Jul, Chief of the Fisheries Technological Branch. They are arranged for card filing and will appear bimonthly in English, French, and Spanish. FAO sales agents from whom they can be obtained are listed on the back cover of this Bulletin. The annual subscription is US $4.00, single copies US $0.75 or the equivalent in the currency of the countries in which FAO sales agents are located.

Salted Cod Study

FAO has just issued the first of a series of fisheries studies, a report on Salted Cod and Related Species, including landings, production, imports, exports, craft, fishing grounds, etc. Salted Cod and Related Species is a 196-page book; in addition to statistical tables, it contains chapters on Volume of World Trade; Operational Features of the Salted Fish Industries; Institutional Factors - Influence of Government Action on Salted Fish Trade, 1920-39; Prices Obtained and Their Economic Consequences, and Salted Fish Industry Since the Outbreak of World War II. It was prepared by Mr. Gerhardsen assisted by Mr. Gertenbach. The price is US$ 2.00 or its equivalent, per copy and can be obtained from any FAO sales agent. A study on Herring and Related Species will be published in 1950.

Transfer of Fisheries Office to Bangkok

The Fisheries Office formerly located in Singapore was transferred to the FAO Regional Office in Bangkok, Thailand, on 15 August 1949. The Regional Fisheries Officer for Asia and the Far East, who is also Secretary of the Indo-Pacific Fisheries Council, is Dr. G.L. Kesteven, FAO Regional Office for Asia and the Far East, Maliwan Mansion, Phra Atit Road, Bangkok.

Appointments to FAO Fisheries Division

Mr. M.J. Girard, formerly Administrateur Principal, Adjoint au Directeur de l'Inscription Maritime, Algiers, has been appointed Regional Fisheries Officer for Europe. He will be located at the FAO Regional Office in Rome.

Mr. S.Y. Lin, formerly Superintendent of Fisheries Research for the Hong-Kong Government, has been appointed Fisheries Biologist. Mr. Lin's duties will be concerned largely with fresh-water fisheries and in particular pond fish culture.

Mr. Francisco Hoyos of Chile and Mr. A. Depauw of Belgium have joined the Division as abstractors/translators in the Fisheries Technological Branch.

Mr. B.F. Osorio Tafall, formerly a consultant in the Bank of Mexico, has accepted an appointment as Regional Fisheries Officer for Latin America. He will join the staff on or about 10 September and will, for the time being, operate from FAO Headquarters.

Table 72. - ICELAND: Landings and utilization, 1938 and 1946-49

Tableau 72. - ISLANDE: Quantités débarquées et utilisatio 1938 et 1946-49

Species	Calendar year Année civile				January-July Janvier-juillet			Espèces
	1938	1946	1947	1948	1947	1948	1949	
	Metric tons a/				Tonnes métriques a/			
LANDINGS								QUANTITES DEBARQUEES
Cod	76 239	154 750	151 368	145 549	132 677	120 315	130 427	Morue
Cusk	256	502	453	606	421	339	786	Brosme
Haddock	2 380	9 038	12 992	16 935	9 752	10 402	12 459	Aiglefin
Ling	892	1 518	4 586	4 492	3 923	3 438	3 495	Lingue
Pollock	-	171	12	207	10	173	307	Lieu
Saithe	9 464	16 090	26 124	53 841	9 164	18 158	12 399	Lieu noir, colin
Herring	155 876	131 722	216 948	150 122	105 703	105 435	6 341	Hareng
Plaice	1 606	2 559	3 333	3 940	1 686	2 391	2 382	Plie
Skate	85	172	83	109	54	76	63	Raie
Lemon sole	-	577	807	938	615	669	754	Sole limande
Catfish	921	4 181	5 423	10 599	3 949	8 558	8 038	Loup de mer
Redfish	459 b/	4 261	8 227	20 394	2 246	6 768	9 227	Sébaste
Halibut	...	736	808	1 465	395	725	975	Flétan
Megrims	...	2	6	11	2	9	80	Cardine
Total	248 178 c/	326 279	431 170	409 208	270 597	277 456	187 733	Total
UTILIZATION								UTILISATIONS
Exported iced								Exporté dans la glace
In fishing vessels	...	53 727	72 346	143 139	34 709	78 056	75 492	Par bateaux de pêche
In cargo vessels	...	36 954	2 332	11 226	1 294	7 132	9 534	Par cargos
Frozen	...	73 113	71 147	76 428	64 820	65 815	67 190	Congelé
Salted	...	47 440	75 105	42 324	66 287	23 087	27 599	Salé
Canned	...	1 055	318	435	303	376	224	Mis en conserves stérilisées
Fresh domestic consumption	...	2 472	2 513	2 940	1 488	1 640	2 081	Frais, pour le marché intérieur
For oil and meal	...	105 507	200 603	129 861	101 008	101 048	4 216	Pour huile et farine de poisson
Other use	...	6 011	6 806	2 855	688	302	1 397	Autres utilisations

SOURCES: 1938: FAO, Yearbook of Fisheries Statistics, 1947 (Washington, D.C., 1948), Table 149. 1946 and 1947: Fiskifélag Islands, Aegir (Reykjavik, February 1948). 1948 and January-July 1947-49: Special reports from Fiskifélag Islands, Reykjavik.

a/ Eviscerated, heads on, except for herring which is measured in round fresh weight.
b/ 1939.
c/ As some of the less important species are not included in this table, this total is somewhat smaller than the total found in Iceland's complete statistics for this year.

SOURCES : 1938 : Annuaire statistique des pêches, 1947 publié pa la FAO (Washington, D.C., 1948), Tableau 149. 1946 et 1947 : Fiskifélag Islands, Aegir (Reykjavik, février 1948). 1948 et ja vier-juillet 1947-49 : rapports inédits de Fiskifélag Islands, Reykjavik.

a/ S'entend pour poisson vidé, tête non enlevée, sauf pour le hareng qui est indiqué en poids brut de poisson frais.
b/ 1939.
c/ Quelques-unes des espèces moins importantes ne sont pas comp ses dans ce tableau, ce qui explique pourquoi ce chiffre est inférieur au total indiqué dans les statistiques complètes islandaises pour cette année.

Table 73. - ICELAND: Exports of principal fisheries products, 1938 and 1946-49

Tableau 73. - ISLANDE: Exportations des principaux produits des pêches, 1938 et 1946-49

Item	Calendar year Année civile				January-July Janvier-juillet		Articles
	1938	1946*	1947	1948	1948	1949	
	(..... Metric tons a/ ..... Tonnes métriques a/ .....)						
Fish, fresh or frozen							Poisson frais ou congelé
Herring, fresh or frozen	82	48 b/	867 c/	4 033 c/	3 412 c/	7 b/	Hareng frais ou congelé
Other fish, iced or frozen	17 135	96 662	86 750	147 641	83 659	94 399	Autres poissons, dans la glace ou congelés
Fish roe							Rogue de poisson
Refrigerated	174	d/	d/	d/	d/	d/	Réfrigérée
Frozen	39	d/	4	107	3	117	Congelée
Total	17 430	96 710	87 621	151 781	87 074	94 523	Total
Fish, cured							Poisson traité
Herring, salted	32 887 e/	15 866	6 603	11 020	186	64	Hareng salé
Other fish, salted, not dried	22 724	11 196 f/	26 623 g/	14 753 h/	8 624 i/	12 640 i/	Autres poissons salés, non séchés
Fish, dried, salted (klipfish)	21 593	16	300	1 506	1 251	188	Poisson salé, séché (klipfisch)
Fish, dried (stockfish)	470	108	6	6	6	-	Poisson séché (stockfisch)
Roe, salted	2 574 k/	1 583	1 760	1 086	769	2 164	Rogue salée
Total	80 248	28 769	35 268	28 371	10 830	15 056	Total
Fish, canned	15	514	340	959	834	226	Poisson en conserves stérilisées
Shrimp, canned	62	...	...	...	...	...	Crevettes en conserves stérilisées
Fish meal							Farine de poisson
Herring meal	17 900	10 195	11 155	34 118	32 186	458	Farine de hareng
Other fish meal	4 394	6 169	5 467	5 499	760	5 102	Farine d'autres poissons
Total	22 294	16 364	16 622	39 617	32 946	5 560	Total
Marine oils							Huiles de poisson et d'animaux marins
Herring oil	22 827	17 534	20 527	28 336	21 054	368	Huile de hareng
Redfish body oil	378	18	-	l/	l/	l/	Huile de chair de sébaste
Other fish oil	4 715	7 737	5 407	8 035	4 405	3 207	Huile d'autres poissons
Whale oil	843	3	-	773	-	749	Huile de baleine
Total	28 763	25 292	25 934	37 144	25 459	4 324	Total
Whale products	897	...	-	864	305	14	Produits extraits de la baleine
Other fisheries products	536 m/	67 m/	-	3 n/	-	2 n/	Autres produits des pêches

SOURCES: 1938: FAO, Yearbook of Fisheries Statistics, 1947 (Washington, D.C., 1948), Table 60. 1946 and 1947: Fiskifélag Islands, Aegir (Reykjavik, February 1948). 1948 and January-June 1948-49: Special reports from Fiskifélag Islands, Reykjavik.

* Figures published in FAO Fisheries Bulletin, No. 2, (trial run) have been revised.

a/ Exported weight.
b/ Frozen.
c/ Iced and frozen.
d/ May be included with "Other fish, iced or frozen."
e/ Including smoked herring.
f/ Including 288 tons of fish, salted in barrels.
g/ Including 23 tons of salted fish fillets.
h/ Comprising 13,309 tons of wet-salted fish, 173 tons of specially cured wet-salted fish, 404 tons of fish salted in barrels, and 867 tons of salted fish fillets.
i/ Comprising 7,320 tons of wet-salted fish, 168 tons of specially cured wet-salted fish, 395 tons of fish salted in barrels, and 741 tons of salted fish fillets.
j/ Including 29 tons of fish, salted in barrels, and 1,725 tons of salted fish fillets.
k/ Salted cod roe, only.
l/ May be included with "Other fish oil."
m/ Comprising dried fish bones, fish livers, dried and salted fish maw, and dried fish waste.
n/ Fish skins.

SOURCES : 1938 : Annuaire statistique des pêches, 1947 publié par la FAO (Washington, D. C., 1948), Tableau 60. 1946 et 1947 : Fiskifélag Islands, Aegir (Reykjavik, février 1948). 1948 et janvier-juin 1948-49: Rapports inédits du Fiskifélag Islands, Reykjavik.

* Les chiffres publiés dans le Bulletin des pêches, No. 2, (numéro d'essai) ont été révisés.

a/ Poids à l'embarquement.
b/ Congelé.
c/ Dans la glace et congelé.
d/ Peut être compris avec "Autres poissons, dans la glace ou congelés".
e/ Y compris hareng fumé.
f/ Y compris 288 tonnes de poisson salé en barils.
g/ Y compris 23 tonnes de filets de poisson salés.
h/ Comprend 13.309 tonnes de poisson salé vert, 173 tonnes de poisson salé vert ayant subi un traitement spécial, 404 tonnes de poisson salé en barils et 867 tonnes de filets de poisson salés.
i/ Comprend 7.320 tonnes de poisson salé vert, 168 tonnes de poisson salé vert ayant subi un traitement spécial, 395 tonnes de poisson salé en barils et 741 tonnes de filets de poisson salés.
j/ Y compris 29 tonnes de poisson salé en barils et 1.725 tonnes de filets de poisson salés.
k/ Rogue de morue salée seulement.
l/ Peut être compris avec "Huile d'autres poissons".
m/ Comprend os de poisson séchés, foies de poisson, vessies natatoires salées et séchées et déchets de poisson séchés.
n/ Peaux de poisson.

Table 74 . - DENMARK: Landings by Danish fishing craft, 1938 and 1946-49

Tableau 74 . - DANEMARK: Quantités débarquées par des navires danois armés à la pêche, 1938 et 1946-49

Species	Calendar year Année civile				January-July Janvier-juillet		Espèces
	1938	1946	1947 a/	1948	1948 b/	1949	
	(..... Metric tons c/.....			Tonnes métriques c/.....)			
A. In Denmark							A. Au Danemark
Teleostean fresh-water species							Espèces téléostéennes d'eau douce
Eel	3 645	d/	4 394	4 201	987	928	Anguille
Other fresh-water fish	e/	270	1 003	1 316	770	643	Autres poissons d'eau douce
Total	3 645	...	5 397	5 337	1 759	1 571	Total
Salmon, trout, and allied species							Saumon, truite et espèces voisines
Pond trout	64	900	1 058	1 324	664	1 007	Truite d'élevage
Total f/	123	1 400	...	...	...	...	Total f/
Teleostean flatfishes							Téléostéens plats
Dab	3 520	...	2 822	2 889	1 716	1 662	Limande
Flounder	3 406	...	3 238	4 853	2 598	3 180	Flet
Plaice	21 616	...	30 761	27 664	16 203	13 128	Plie
Total f/	30 419	66 700	36 821	...	20 517	17 970	Total f/
Cod, hake, and allied species							Morue, merlus et espèces voisines
Cod	19 299	...	50 164	47 197	33 857	35 497	Morue
Total f/	24 058	68 000	...	...	...	...	Total f/
Herring and allied species							Hareng et espèces voisines
Herring	14 525	...	25 276	25 008	15 587	18 453	Hareng
Sprats	-	...	5 476	4 749	2 077	3 967	Esprot
Total	14 525	27 500	30 752	29 757	17 664	22 420	Total
Tunas, true mackerels, and allied species							Thons, scombres et espèces voisines
Tuna	-	630	-	-	-	-	Thon
Mackerel	5 973	7 200	10 951	10 123	5 210	7 195	Maquereau
Total	5 973	7 830	10 951	10 123	5 210	7 195	Total
Other teleostean marine species							Autres espèces téléostéennes marines
Fish for reduction purposes	...	d/	25 044	40 900	20 496	22 233	Poisson destiné à être transformé
Other salt-water fish	8 410g/	21 000d/	14 474	15 512	8 614	7 165	Autres poissons de mer
Total	...	...	39 518	56 412	29 110	29 398	Total
Garfish	2 099	d/	1 203	1 892	1 356	1 628	Orphie
Sharks	-	1 800	-	-	-	-	Requin
Crustaceans and molluscs							Crustacés et mollusques
Mussels, with shells	-	...	841	4 256	700	3 599	Moules en coquille
Crustaceans	591	...	1 902	1 704	1 065	742	Crustacés
Total	591	2 900	2 743	5 960	1 765	4 341	Total
GRAND TOTAL	89 843	197 400	178 607 h/	193 408 h/	111 900 h/	121 027 h/	TOTAL GENERAL
B. In British harbors							B. Dans les ports britanniques
Cod	82	...	1 525	998	914	411	Morue
Haddock	810	...	-	-	-	-	Aiglefin
Flounder	-	...	-	23	13	-	Flet
Dab	690	...	1 016	985	607	-	Limande
Plaice	3 062	...	16 953	18 744	8 963	6 058	Plie
Other salt-water fish	787	...	812	1 558	1 022	861	Autres poissons de mer
Roe	-	...	-	6	6	-	Rogue de poisson
Total	5 431	...	20 306	22 308	11 519	7 330 i/	Total

SOURCES: 1938: FAO Yearbook of Fisheries Statistics, 1947 (Washington, 1948), Table 146. 1946: FAO Questionnaire, Preliminary Report on Landings and Utilization. 1947-49: Ministry of Fisheries, Oversigt over Fiskeriet, January/December 1947, January/December 1948, January/July 1948. January/July 1949 (Copenhagen), mimeographed.

a/ Revised.
b/ In addition to landings shown, landings in Swedish harbors were: plaice, 24 tons; cod, 7 tons; herring 3 tons; dab, 2 tons; other salt-water fish, 36 tons.
c/ Round, fresh weight.
d/ Eels, garfish, and fish for reduction purposes may be included with "Other salt-water fish."
e/ Other fresh-water fish may be included with "Other salt-water fish."
f/ As minor species included in the tables are not shown in the breakdowns, the totals are often larger than the aggregate of the species indicated.
g/ Including deep-sea lobsters.
h/ In addition to the grand total for Danish landings in Denmark, foreign fishermen landed 4,375 tons in 1947; 9,618 tons in 1948; 4,865 tons in January-July 1948; and 9,791 tons in January-July 1949. Herring and allied species accounted for 70, 80, 70 and 71 percent, respectively, during these periods.
i/ Landings in January-June only.

SOURCES: 1938: Annuaire statistique des pêches, 1947 publié par la FAO (Washington, 1948) Tableau 146. 1946: Questionnaire FAO, Rapport préliminaire sur les mises à terre et leur utilisation. 1947-49: Ministère des Pêches, Oversigt over Fiskeriet, janvier/décembre 1947, janvier/décembre 1948, janvier/juillet 1948, janvier/juillet 1949 (Copenhague), rapport polycopié.

a/ Chiffres révisés.
b/ Il faut ajouter aux quantités débarquées indiquées les quantités suivantes débarquées dans des ports suédois : plie, 24 tonnes; morue, 7 tonnes; hareng, 3 tonnes; limande, 2 tonnes; autres poissons de mer, 36 tonnes.
c/ Poids brut de poisson frais.
d/ Les anguilles, orphies et poissons destinés à la transformation peuvent être compris avec "Autres poissons de mer".
e/ D'autres poissons d'eau douce peuvent être compris dans "Autres poissons de mer".
f/ Du fait que les espèces secondaires ne sont pas indiquées en détail dans les tableaux, les totaux sont souvent supérieurs à la somme des chiffres indiqués.
g/ Y compris homard de haute mer.
h/ Il faut ajouter au total général des quantités débarquées au Danemark par des navires danois celles par des navires étrangers qui se sont montées à 4.375 tonnes en 1947; à 9.618 tonnes en 1948; à 4.865 tonnes en janvier-juillet 1948; et à 9.791 tonnes en janvier-juillet 1949. Le hareng et les espèces voisines représentent respectivement 70, 80, 70 et 71 pour cent de ces chiffres.
i/ Quantités débarquées en janvier-juin seulement.

Table 75. - DENMARK: Exports of principal fisheries products, 1938 and 1946-49

Tableau 75. - DANEMARK: Exportations des principaux produits des pêches, 1938 et 1946-49

Item	Calendar year Année civile				January-June Janvier-juin		Articles
	1938	1946	1947	1948	1948	1949	
	(. . . . . Metric tons a/ . . . . Tonnes métriques a/ . . . . .)						
Fish, fresh							Poisson frais
Cod and haddock	8 822	27 339	25 160	21 837	14 412	15 176	Morue et aiglefin
Herring	11 209	1 256	4 968	5 397	3 193	16 907	Hareng
Plaice and similar fish	22 764	49 022	39 736	39 790	15 842	15 958	Plie et autres poissons plats
Other fish	7 150	4 678	11 863	12 897	4 597	6 356	Autres poissons
Total	49 945	82 295	81 797	79 921	38 044	54 397	Total
Fish, salted, dried or smoked							Poisson salé, séché ou fumé
Herring, salted	...	...	5 262	6 256	5 127	3 318	Hareng salé
Klipfish and similar products	2 125	4 825	9 500	9 375	6 601	2 578	Klipfisch et produits similaires
Other fish	2 420 b/	7 851 b/	651	1 102	570	396	Autres poissons
Total	...	...	15 413	16 733	12 298	6 292	Total
Fish, canned							Poisson en conserves stérilisées
Sardines	...	...	2	-	-	-	Sardines
Other fish	...	...	1 487	2 605	1 238	2 450	Autres poissons
Total	391	251	1 489	2 605	1 238	2 450	Total
Crustaceans and molluscs	c/	c/	38	2 511	244	2 947	Crustacés et mollusques
Fish meal	...	...	50	-	-	-	Farine de poisson
Aquatic animal oils							Huiles de poissons et d'animaux marins
Fish oil	1 830	513	360	883	314	381	Huiles de poisson
Medicinal and edible oil	...	...	31	272	78	283	Huile médicinale et comestible
Whale oil	...	...	270	309	264	249	Huile de baleine
Seal oil	...	...	8	-	-	50	Huile de phoque
Total	...	...	689	1 464	656	963	Total
Other fisheries products	...	...	10 168	10 975	4 052	9 134	Autres produits des pêches

SOURCES: 1938 and 1946: FAO, Yearbook of Fisheries Statistics, 1947 (Washington, D. C., 1948), Table 41. 1947-49: Statistiske Department, Vareomsaetningen med Udlandet (Copenhagen, December 1947, December 1948, June 1948, June 1949).

a/ Exported weight.
b/ Includes other fish, crustaceans, and molluscs.
c/ Included with "Other fish, salted, dried, or smoked."

SOURCE : 1938 et 1946 : Annuaire statistique des pêches, 1947 publié par la FAO (Washington, D.C., 1948), Tableau 41. 1947-49 : Statistiske Department, Vareomsaetningen med Udlandet (Copenhague, décembre 1947, décembre 1948, juin 1948, juin 1949).

a/ Poids à l'embarquement.
b/ Comprend autres poissons, crustacés et mollusques.
c/ Compris dans "Autres poissons salés, séchés ou fumés."

Table 76. - DENMARK: Imports of principal fisheries products, 1938 and 1946-49

Tableau 76. - DANEMARK: Importations des principaux produits des pêches, 1938 et 1946-49

Item	Calendar year Année civile				January-June Janvier-juin		Articles
	1938	1946	1947	1948	1948	1949	
	(. . . . . Metric tons a/ . . . . Tonnes métriques a/ . . . . .)						
Fish, fresh							Poisson frais
Herring	...	...	3 448	7 953	3 569	6 860	Hareng
Other fish	...	...	1 904	2 106	1 371	2 159	Autres poissons
Total	14 298	1 745	5 352	10 059	4 940	9 019	Total
Fish, salted, dried, or smoked							Poisson salé, séché ou fumé
Herring, salted	3 870	1 889	2 315	2 137	786	523	Hareng salé
Klipfish and similar products	3 812	2 752	8 373	6 023	2 571	1 907	Klipfisch et produits similaires
Other fish	1 347	602	362	763	7	43	Autres poissons
Total	9 029	5 243	11 050	8 923	3 364	2 473	Total
Fish, canned							Poisson en conserves stérilisées
Sardines	289	5	35	31	1	23	Sardines
Other fish	222	60	76	124	43	203	Autres poissons
Total	511	65	111	155	44	226	Total
Crustaceans and molluscs	259	81	81	73	33	29	Crustacés et mollusques
Fish meal	3 438 b/	3 188	2 906	10 746	5 795	4 859	Farine de poisson
Aquatic animal oils							Huiles de poissons et d'animaux marins
Fish oil	10 024	483	868	2 309	1 251	1 320	Huiles de poisson
Medicinal and edible oil	1 263	890	1 640	829	227	538	Huile médicinale et comestible
Whale oil	34 923	4 547	10 282	10 754	9 164	13 192	Huile de baleine
Seal oil	101	425	175	7	-	5	Huile de phoque
Total	46 311	6 345	12 965	13 899	10 642	15 055	Total
Other fisheries products	794	474	1 259	1 006	512	670	Autres produits des pêches

SOURCES: 1938 and 1946: FAO, Yearbook of Fisheries Statistics, 1947 (Washington, D.C., 1948), Table 39. 1947-49: Statistiske Department, Vareomsaetningen med Udlandet (Copenhagen, December 1947, December 1948, June 1948, June 1949).

a/ Imported weight.
b/ Includes meat meal and bone meal.

SOURCES : 1938 et 1946 : Annuaire statistique des pêches, 1947 publié par la FAO (Washington, D.C., 1948), Tableau 39. 1947-49 : Statistiske Department, Vareomsaetningen med Udlandet (Copenhague, décembre 1947, décembre 1948, juin 1948, juin 1949).

a/ Poids au débarquement.
b/ Comprend farine de chair et farine de cartilages.

Table 77.- NORWAY: Winter herring fishery production in 1949 compared with 1937-40 and 1946-48

Tableau 77.- NORVEGE: Production de hareng d'hiver en 1 comparée avec celle de 1937-40 et 1946-48

Species and year	Exported fresh and frozen	Salted	Kippers	Reduction to oil and meal	Bait	Fresh for human consumption	Total	Catching methods: Purse seine	Gill net	Shore seine	Espèces e années
	Exportations frais et congelé	Salé	Kippers	Transformation en huile et en farine	Appâts	Frais pour la consommation humaine	Total	Méthodes de pêche: Seine tournante	Filet maillant	Seine halée à terre	
	(.....Metric tons a/ .....Tonnes métriques a/ .....)										
Large herring	62 541	65 524	8 872	176 339	3 970	3 712	320 958	194 682	99 545	26 731	Gros hare
Spring herring	58 131	60 352	4 628	118 319	3 890	1 176	246 496	100 965	135 055	10 476	Hareng de printem
Total, 1949	120 672	125 876	13 500	294 658	7 860	4 888	567 454	295 647	234 600	37 207	Total,1
1948	119 666	118 181	17 769	540 007	17 112	7 557	820 292	325 516	423 715	71 061	1948
1947	94 918	103 058	17 088	263 408	9 682	6 116	494 270	231 349	256 924	5 997	1947
1946	53 138	75 423	17 342	195 435	7 493	8 802	357 633	134 915	220 699	2 019	1946
1940	59 332	35 953	8 674	289 015	6 542	8 198	407 714	161 418	234 364	11 932	1940
1939	95 004	30 918	9 246	247 083	8 787	14 212	405 250	162 321	222 257	20 673	1939
1938	81 860	26 352	10 778	355 222	7 903	12 251	494 366	200 471	257 280	36 614	1938
1937	77 854	58 359	14 784	147 204	6 973	12 944	318 118	118 232	180 090	19 796	1937

SOURCE: Fiskeridirektøren, Fiskets Gang (Bergen: No.24, 23 June 1949, p. 281; No. 25, 30 June 1949, p. 292).

a/ Original unit; hectoliters: multiplier 0.093.

SOURCE: Fiskeridirektøren, Fiskets Gang (Bergen: No.24, 23 J 1949, p. 281; No.25, 30 juin 1949, p. 292).

a/ Unité originale : hectolitres; coefficient : 0,093.

Table 78 . - NORWAY: Landings and utilization of cod, 1938 and 1946-49 a/

Tableau 78. - NORVEGE: Morue - quantités débarquées et utilisations, 1938 et 1946-49 a/

Item	1938	1946	1947	1948	1949	Articles
	(.....Metric tons.....Tonnes métriques.....)					
Total cod landings	161 801	184 695 b/	229 117	133 712	112 995	Total des quantités de morue débarquées
For stockfish	68 160	51 148	60 013	24 108	22 516	Pour stockfisch
Salted	86 399	104 700	129 317	69 907	44 198	Salée
Fresh	7 242	28 512	39 787	39 697	46 281	Fraîche

SOURCE: Fiskeridirektøren, Fiskets Gang, (Bergen, 10 July 1947 and 30 June 1940).

a/ Spawning cod and Finnmark cod only.
b/ Including 335 tons used for fish meal.

SOURCE: Fiskeridirektøren, Fiskets Gang, (Bergen, 10 juillet 1947 et 30 juin 1949).

a/ Morue de frai et morue du Finnmark seulement.
b/ Y compris 335 tonnes destinées à la fabrication de farine.

Table 79. - UNITED KINGDOM: Landings in England and Wales and in Scotland by British fishing craft, 1938 and 1946-49

Tableau 79. - ROYAUME-UNI : Quantités débarquées en Angleterre et au pays de Galles et en Ecosse par les navires britanniques armés à la pêche, 1938 et 1946-49

Item	1938	1946	1947	1948 a/	January-July / Janvier-juillet 1948 a/	January-July / Janvier-juillet 1949 a/	Articles
	(.....Metric tons b/.....Tonnes métriques b/.....)						
Teleostean flatfishes	58 509	81 818	76 317	67 769	41 803	37 615	Téléostéens plats
Cod, hake and allied species	611 841	559 435	618 348	611 475	374 703	369 112	Morue, merlus et espèces voisines
Herring and allied species	282 572	207 565	229 227	274 861	102 469	74 366	Harengs et espèces voisines
Mackerel	10 218	3 171	3 633	3 151	3 892	4 177	Maquereau
Mullets (grey mullet)	42	9	29	7	7	21	Mulet
Allied species of jacks and pompanos	108	113	272	306	136	141	Espèces voisines des chinchards et "pompanos" f/
Breams and allied species	7 679	4 711	10 214	15 706	7 612	10 960	Brème et espèces voisines
Other teleostean marine species	26 755	14 124	19 056	23 277	13 003	11 569	Autres espèces téléostéennes marines
Elasmobranch fish	30 084	20 467	27 069	29 702	15 658	17 252	Elasmobranches
Crustaceans and molluscs c/	31 126	29 262	26 838	28 113	16 626	14 935	Crustacés et mollusques c/
Miscellaneous d/	34 551	23 311	25 532	27 783	17 554	17 433	Produits divers d/
TOTAL e/	1 093 465	944 006	1 036 535	1 087 150	593 463	557 581	TOTAL e/

SOURCES: 1938 and 1946: FAO, Yearbook of Fisheries Statistics, 1947 (Washington, D.C., 1948), Tables 166 and 167. 1947-48: Ministry of Agriculture and Fisheries, Monthly Return of Sea Fisheries, England and Wales, December 1948 (London, 22 January 1949), mimeographed statement; Scottish Home Department, Statement of the total quantity and value of the fish returned as landed on the Scottish Coasts by British Fishing Vessels, December 1948 (Edinburgh, 21 January 1949), mimeographed statement. January-July 1948-49: Ministry of Agriculture and Fisheries, Monthly Return of Sea Fisheries, England and Wales July 1949 (London, July 1949), mimeographed statement; Scottish Home Department, Statement of the total quantity and value of the fish returned as landed on the Scottish Coasts by British Fishing Vessels, July 1949 (Edinburgh, 19 August 1949), mimeographed statement.

a/ Preliminary data.
b/ These figures, except for crustaceans and molluscs, are not converted to round fresh weight but are given as reported in the sources concerned. Original unit: cwt. (112 lb.).(except crustaceans and molluscs); multiplier: 0.050802.
c/ Data for 1938 and 1946-48 have been revised.
d/ Miscellaneous products as fish roe, fish oil, and fish livers landed in Scotland are not included.
e/ The totals for 1938 and 1946 are higher than the totals previously published in Fisheries Bulletins as some of the crustaceans and molluscs, originally reported in number, have been converted to weight.

SOURCES : 1938 et 1946 : Annuaire statistique des pêches, 1947 publié par la FAO (Washington, D.C., 1948), Tableaux 166 et 167. 1947-48 : Ministry of Agriculture and Fisheries, Monthly Return of Sea Fisheries, England and Wales, décembre 1948 (Londres, 22 janvier 1949), rapport polycopié; Scottish Home Department, Statement of the total quantity and value of the fish returned as landed on the Scottish Coasts by British Fishing Vessels, décembre 1948 (Edimbourg, 21 janvier 1949), rapport polycopié. Janvier-juillet 1948-49 : Ministry of Agriculture and Fisheries, Monthly Return of Sea Fisheries, England and Wales, juillet 1949 (Londres, 20 août 1949), rapport polycopié; Scottish Home Department, Statement of the total quantity and value of the fish returned as landed on the Scottish Coasts by British Fishing Vessels, juillet 1949 (Edimbourg, 19 août 1949), rapport polycopié.

a/ Données préliminaires.
b/ Sauf pour les crustacés et les mollusques, ces chiffres n'ont pas été convertis en poids brut du poisson frais, mais figurent tels qu'ils sont donnés par les diverses sources. Unité originale :"hundredweight" (112 livres anglaises)(sauf pour les crustacés et les mollusques); coefficient 0,050802.
c/ Les données pour 1938 et pour 1946-48 ont été révisées.
d/ Ne comprend pas les produits divers, tels que : oeufs de poisson, huile et foies de poisson débarqués en Ecosse.
e/ Les totaux pour 1938 et 1946 sont supérieurs aux totaux publiés antérieurement dans les Bulletins des pêches, certains crustacés et mollusques, indiqués dans la source en unités, ayant été évalués ici en tonnes métriques.
f/ Le nom équivalent en français n'a pas été trouvé.

Table 80. - IRELAND: Landings in Ireland by Irish fishing craft, 1938 and 1946-49

Tableau 80. - IRLANDE: Quantités débarquées en Irlande par les navires irlandais armés à la pêche, 1938 et 1946-49

Species	Calendar year Année civile				January-June a/ Janvier-juin a/		Espèces
	1938	1946	1947	1948 a/	1948	1949	
	(.....Metric tons b/.....Tonnes métriques b/.....)						
Teleostean fresh-water species	...	128	151	...	...	...	Espèces téléostéennes d'eau douce
Salmon and allied (marine) species	...	762	783	...	...	...	Saumon et espèces voisines (marines)
Teleostean flatfishes	755	960	966	941	435	429	Téléostéens plats
Cod, hake, and allied species	2 496	5 069	4 217	4 217	1 933	1 608	Morue, merlus et espèces voisines
Herring and allied species	2 868	5 215	6 855	4 022	825	312	Hareng et espèces voisines
Mackerel	1 810	3 400	1 944	7 407	7 132	875	Maquereau
Other teleostean marine species	527	998	1 150	936	421	447	Autres espèces téléostéennes marines
Elasmobranch fish	455	901	966	1 025	490	585	Elasmobranches
Crustaceans	228	261	224	151	35	56	Crustacés
Molluscs c/	2 277	3 501	3 202	2 046	908	884	Mollusques c/
TOTAL d/	...	21 215	20 436	...	...	...	TOTAL d/

SOURCES: 1938, 1946 and 1947: Department of Agriculture, Fisheries Branch, Report on the Sea and Inland Fisheries (Dublin: The Stationery Office, 1938, 1946, 1947) and communication to FAO from Department of Agriculture, Dublin, 18 December 1948. 1948-49: Department of Agriculture, Fisheries Branch, Landings of Sea Fish, (Dublin, December 1948 and February 1949), mimeographed statements.

a/ Figures subject to revision.
b/ Degree of dressing of fish landed not specified. Original unit: cwt. (112 lb.); multiplier: 0.050802.
c/ Including quantities reported in the source as "other shellfish".
d/ The totals for 1938 and 1946 will be greater than the totals in Table 150 of FAO Yearbook of Fisheries Statistics, 1947, as quantity of molluscs and crustaceans originally given in numbers has now been converted to weight.

SOURCES: 1938, 1946 et 1947: Department of Agriculture, Fisheries Branch, Report on the Sea and Inland Fisheries (Dublin: The Stationery Office, 1938, 1946, 1947) et données communiquées à la FAO par le Ministère de l'Agriculture, Dublin, 18 décembre 1948. 1948-49: Department of Agricultur Fisheries Branch, Landings of Sea Fish, (Dublin, décembre 1948 et février 1949), rapports polycopiés.

a/ Chiffres sujets à révision.
b/ Le degré de préparation du poisson, au moment du débarque ment n'est pas précisé. Unité originale: "hundred-weigh (112 livres anglaises); coefficient de conversion: 0,0508
c/ D'après la source comprend aussi certaines quantités d'"autres coquillages".
d/ Les totaux pour 1938 et 1946 sont supérieurs aux chiffres correspondants du Tableau 150 de l'Annuaire statistique des pêches, 1947 publié par la FAO, car les mollusques e les crustacés, indiqués premièrement en unités, ont été ici évalués en poids.

Table 81. - NETHERLANDS: Landings in the Netherlands, 1938 and 1946-49 a/

Tableau 81. - PAYS-BAS: Quantités débarquées aux Pays-Ba 1938 et 1946-49 a/

Species	Calendar year Année civile				January-June Janvier-juin		Espèces
	1938	1946	1947	1948	1948	1949	
	(.....Metric tons b/.....Tonnes métriques b/.....)						
Teleostean fresh-water species	258	852	1 595	1 558	641	501	Espèces téléostéennes d'eau douce
Salmon and allied species	584	362	127	136	101	67	Saumon et espèces voisines
Teleostean flatfishes	13 729	20 975	15 919	21 697	12 663	10 834	Téléostéens plats
Cod, hake, and allied species	19 041	18 292	22 664	11 599	8 061	8 210	Morue, merlus et espèces voisines
Herring and allied species	98 999	106 218	152 800	141 397	16 552	14 919	Hareng et espèces voisines
Mackerel	6 944	484	1 644	5 512	2 034	1 963	Maquereau
Mullet	6	...	-	-	-	-	Rouget
Horse mackerel	1	...	175	277	178	226	Saurel
Perches, breams, basses, and allied species	558	722	856	1 270	829	715	Perches, brèmes, bars et espèces voisines
Other teleostean marine species e/	19 292	9 241 d/	9 104	10 130	4 855	5 538	Autres téléostéens de mer c/
Ganoids	16	342	-	-	-	-	Ganoïdes
Elasmobranch fish	286	259	120	247	108	120	Elasmobranches
Crustaceans	5 117	4 171	11 480	7 995	4 358	2 316	Crustacés
Molluscs	63 244	35 280	59 369	55 032	14 968	14 208	Mollusques
TOTAL	226 071	197 208	256 101	257 870	65 348	59 320	TOTAL

SOURCES: 1938 and 1946: FAO, Yearbook of Fisheries Statistics, 1947 (Washington, D.C., 1948), Table 157. 1947-49: Special reports from Central Bureau of Statistics, The Hague.

a/ Includes landings by foreign vessels for 1938. Data for other periods may include landings by foreign vessels.
b/ Recorded weight.
c/ May include some species of fresh-water fish.
d/ Includes "small fish and miscellaneous fish", as listed in the source.

SOURCES: 1938 et 1946: Annuaire statistique des pêches, 1 publié par la FAO (Washington, D.C., 1948), Tableau 157. 1 49: Rapports inédits du Bureau central de Statistique des Pays-Bas, la Haye.

a/ Comprend les quantités débarquées par des navires étran en 1938; il est possible que les données pour d'autres périodes comprennent aussi les quantités débarquées par des navires étrangers.
b/ Poids enregistré.
c/ Comprend peut-être certains téléostéens d'eau douce.
d/ Comprend "petits poissons et poissons divers", comme indiqué dans la source.

Table 82. - NETHERLANDS: Exports of principal fisheries products, 1938 and 1946-49

Tableau 82. - PAYS-BAS: Exportations des principaux produits des pêches, 1938 et 1946-49

Product	Calendar year Année civile				January-May Janvier-mai		Produits
	1938	1946	1947	1948	1948	1949	
	(.....Metric tons a/.....Tonnes métriques a/.....)						
Fish, fresh or frozen	20 699	6 438	12 807	13 427	2 900	7 177	Poisson frais ou congelé
Fish, dried, salted or smoked	76 740	14 869	48 816	48 937	18 937	26 190	Poisson séché, salé ou fumé
Fish, canned	555	1 359	6 493	5 345	3 362	2 455	Poisson en conserves stérilisées
Crustaceans and molluscs	46 118	23 376	46 589	44 133	12 147	13 477	Crustacés et mollusques
Aquatic animal oils	50 466	25	7 205	5 176	37	1 937	Huiles de poissons et d'animaux marins
Other fisheries products	964	136	1 283	2 439	1 248	851	Autres produits des pêches
Fish meal	942	125	1 262	2 412	1 248	851	Farine de poisson
Sponges, natural	7	-	-	-	-	-	Eponges brutes
Seaweeds	15	11	21	27	-	-	Algues

SOURCES: 1938: FAO, Yearbook of Fisheries Statistics, 1947, (Washington, D.C., 1948), Table 87. 1946-49: Centraal Bureau voor de Statistiek, Maandstatistiek van de In-, Uit-en Doorvoer van Nederland, Deel I, Invoer en Uitvoer volgens Goederensoort (Utrecht: W. De Haan N.V., December 1947, December 1948, May 1948, May 1949).

SOURCES: 1938: Annuaire statistique des pêches, 1947 publié par la FAO (Washington, D.C., 1948), Tableau 87. 1946-49: Centraal Bureau voor de Statistiek, Maandstatistiek van de In-, Uit-en Doorvoer van Nederland, Deel I, Invoer en Uitvoer volgens Goederensoort (Utrecht: W. De Haan, N.V., décembre 1947, décembre 1948, mai 1948, mai 1949).

a/ Net weight of exported items.

a/ Poids net des articles exportés.

Table 83. - NETHERLANDS: Imports of principal fisheries products, 1938 and 1946-49

Tableau 83. - PAYS-BAS: Importations des principaux produits des pêches, 1938 et 1946-49

Product	Calendar year Année civile				January-May Janvier-mai		Produits
	1938	1946	1947	1948	1948	1949	
	(.....Metric tons a/.....Tonnes métriques a/.....)						
Fish, fresh or frozen	4 394	2 433	4 550	4 672	1 970	1 159	Poisson frais ou congelé
Fish, dried, salted or smoked	3 254	1 211	2 585	1 234	392	178	Poisson séché, salé ou fumé
Fish, canned	4 020	1 040	97	138	36	59	Poisson en conserves stérilisées
Crustaceans and molluscs	1 693 b/	211 b/	360 b/	215 b/	136 b/	77	Crustacés et mollusques
Aquatic animal oils	74 170	8 052	19 200	17 126	5 850	3 462	Huiles de poissons et d'animaux marins
Other fisheries products	23 655	4 544	4 700	7 205	3 740	3 401	Autres produits des pêches
Fish meal	23 363	3 934	3 751	6 485	3 554	2 93[illegible]	Farine de poisson
Whale meal	99	-	-	-	-	-	Farine de baleine
Sponges, natural	71	15	31	19	6	6	Eponges brutes
Seaweeds	122	595	918	701	180	203	Algues
Oysters and mussels for breeding	b/	b/	b/	b/	b/	259	Naissain d'huîtres et de moules

SOURCES: 1938: FAO Yearbook of Fisheries Statistics, 1947, (Washington, D.C., 1948), Table 86. 1946-49: Centraal Bureau voor de Statistiek, Maandstatistiek van de In-, Uit-en Doorvoer van Nederland, Deel I, Invoer en Uitvoer volgens Goederensoort (Utrecht: W. De Haan N.V., December 1947, December 1948, May 1948, May 1949).

SOURCES: 1938: Annuaire statistique des pêches, 1947 publié par la FAO (Washington, D.C., 1948). Tableau 86. 1946-49: Centraal Bureau voor de Statistiek, Maandstatistiek van de In-, Uit-en Doorvoer van Nederland, Deel I, Invoer en Uitvoer volgens Goederensoort (Utrecht: W. De Haan N.V., décembre 1947, décembre 1948, mai 1948, mai 1949).

a/ Net weight of imported items.
b/ Crustaceans and Molluscs may include oysters and mussels for breeding.

a/ Poids net des articles importés.
b/ Les crustacés et mollusques peuvent comprendre des naissains d'huîtres et de moules.

Table 84. - PORTUGAL: Exports of principal fisheries products, 1938 and 1946-49

Tableau 84. - PORTUGAL: Exportations des principaux produits des pêches, 1938 et 1946-49

Product	Calendar year Année civile				January-May Janvier-mai		Produits
	1938	1946	1947	1948	1948	1949	
	(.....Metric tons a/.....Tonnes métriques a/.....)						
Fish, fresh or frozen	565	...	...	...	...	...	Poisson frais ou congelé
Fish, dried, salted or smoked	7 590	...	...	...	...	...	Poisson séché, salé ou fumé
Fish, canned							Poisson en conserves stérilisées
Tuna and tuna-like fish							Thon et espèces similaires
In brine	b/	97	141	9	1	35	En saumure
In oil	1 179 b/	3 674	2 167	2 868	963	598	A l'huile
Sardines and related species							Sardines et espèces voisines
in brine	c/	2 088	4 510	3 796	2 190	348	en saumure
Sardines, in oil	30 477 c/	36 269	27 294	31 029	15 435	3 618	Sardines à l'huile
Sardine-like fish in oil	2 731	4 293	3 713	2 491	774	1 048	Espèces similaires à la sardine à l'h
Other fish	2	...	...	1 350	574	503	Autres poissons
Total	34 389	...	...	41 553	19 937	6 150	Total
Lobsters and crawfish (Number)	11 065	...	...	...	...	...	Homards et langoustes (Unités)
Other crustaceans and molluscs	1 070	...	...	...	...	...	Autres crustacés et mollusques
Aquatic animal oils							Huiles de poissons et d'animaux marins
Sardine oil	d/	2 123	1 686	384	303	1 096	Huile de sardine
Sperm and whale oil	685	2 668	3 667	1 601	496	777	Huile de baleine et de cachalot
Other oils	1 304 d/	134	48	2	2	-	Autres huiles
Total	1 989	4 925	5 401	1 987	801	1 873	Total
Other fisheries products	2 029 e/	...	...	...	...	...	Autres produits des pêches

SOURCES: 1938: FAO, Yearbook of Fisheries Statistics, 1947, (Washington, D.C., 1948), Table 104. 1946-49: Instituto Nacional de Estatistica, Boletim Mensal (Lisbon, December 1946, December 1947, December 1948, May 1948, May 1949).

a/ Unless otherwise indicated (see lobsters and crawfish); exported weight.
b/ Tuna and tuna-like fish in brine included with those canned in oil.
c/ Sardines and similar species in brine included with sardines canned in oil.
d/ Sardine oil included with "Other marine oils."
e/ Comprising 10 tons of fish skins, salted or dried, and 2,019 tons of fish guano.

SOURCES: 1938: Annuaire statistique des pêches, 1947, publié par la FAO (Washington, D.C., 1948), Tableau 104. 1946-49: Instituto Nacional de Estatistica, Boletim Mensal (Lisbonne, décembre 1946, décembre 1947, décembre 1948, mai 1948, mai 194

a/ Sauf indication contraire (voir homards et langoustes); poids à l'embarquement.
b/ Thon et espèces similaires en saumure compris dans: "Thon et espèces similaires à l'huile".
c/ Sardines et espèces voisines en saumure compris dans "Sardines à l'huile".
d/ Huile de sardine compris dans "Autres huiles".
e/ Y compris 10 tonnes de peaux de poissons salées ou séchées et 2.019 tonnes de guano de poisson.

Table 85. - PORTUGAL: Imports of principal fisheries products, 1938 and 1946-49

Tableau 85. - PORTUGAL: Importations des principaux produits des pêches, 1938 et 1946-49

Product	Calendar year Année civile				January-May Janvier-mai		Produits
	1938	1946	1947	1948	1948	1949	
	(.....Metric tons a/.....Tonnes métriques a/.....)						
Fish, fresh							Poisson frais
Cod	5 259	17 277 b/	27 509 b/	26 541 b/	15 544 b/	7 140 b/	Morue
Other	538	...	...	...	...	...	Autres
Total	5 797	...	...	...	...	...	Total
Fish, dried, salted or smoked							Poisson séché, salé ou fumé
Cod	3 779	b/	b/	b/	b/	b/	Morue
Other	293	668	660	222	82	159	Autres
Total	4 072	...	...	...	...	...	Total
Fish, canned	31	...	...	...	...	...	Poisson en conserves stérilisées
Sponges, prepared	1	...	...	...	...	...	Eponges préparées

SOURCES: 1938: FAO, Yearbook of Fisheries Statistics, 1947 (Washington, D.C., 1948), Table 103. 1946-49: Instituto Nacional de Estatistica, Boletim Mensal (Lisbon, December 1946, December 1947, December 1948, May 1948, May 1949).

a/ Imported weight.
b/ Cod, dried, salted or smoked included with fresh cod.

SOURCES: 1938: Annuaire statistique des pêches, 1947 publié par la FAO (Washington, D.C., 1938), Tableau 103. 1946-49: Instituto Nacional de Estatistica, Boletim Mensal (Lisbonne, décembre 1946, décembre 1947, décembre 1948, mai 1948, mai 1

a/ Poids au débarquement.
b/ Morue, séchée, salée ou fumée comprise dans morue, fraîc

Table 86. - YUGOSLAVIA: Exports, 1930-39

Q = Quantities in metric quintals (100 kg.)
V = Values in thousand of dinars

Tableau 86. - YOUGOSLAVIE: Exportations, 1930-39

Q = Quantités en quintaux métriques (100 kg)
V = Valeurs en milliers de dinars

Item		1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	Articles
Fish, fresh or frozen	Q	18 997	19 830	20 736	17 066	19 992	15 891	16 425	16 874	19 568	9 679	Q Poisson frais ou congelé
	V	21 559	22 492	14 564	11 776	11 675	9 203	10 629	9 570	10 188	6 263	V
Fish, dried, salted or smoked	Q	7 703	9 096	6 443	12 036	14 268	13 243	14 329	13 945	10 188	15 066	Q Poisson séché, salé ou
	V	6 208	5 824	4 850	5 050	5 117	4 367	7 016	7 213	5 067	6 137	V fumé
Fish, canned	Q	1 217	1 727	397	585	734	1 015	924	681	568	2 741	Q Poisson en conserves
	V	3 798	4 991	1 151	950	1 389	1 967	2 054	1 852	1 458	7 842	V stérilisées
Crustaceans and molluscs, fresh, frozen, dried or salted	Q	376	178	217	232	305	626	3 077	2 252	589	512	Q Crustacés et mollusques
	V	736	420	376	315	417	776	1 715	968	601	717	V frais, congelés, séchés ou salés
Other edible aquatic animal products	Q	-	2	1	1	3	2	31	36	6	5	Q Autres produits comestibles
	V	-	25	3	1	2	2	21	14	50	27	V d'origine marine
Miscellaneous aquatic animal and plant products	Q	...	...	...	...	...	...	...	...	...	...	Q Produits divers provenant de
	V	252	151	90	178	213	239	104	248	142	102	V plantes ou d'animaux marins
TOTAL	Q	...	...	...	...	...	...	...	...	...	...	Q TOTAL
	V	32 333	33 503	21 034	18 270	18 813	16 554	21 539	19 865	17 506	21 148	V

SOURCE: Ministère des Finances, Section des douanes, Statistique du Commerce Extérieur du Royaume de Yougoslavie, 1930-39 (Belgrade: Imprimerie Nationale).

Table 87.- YUGOSLAVIA: Imports, 1930-39

Q = Quantities in metric quintals (100 kg.)
V = Values in thousands of dinars

Tableau 87. - YOUGOSLAVIE: Importations, 1930-39

Q = Quantités en quintaux métriques (100 kg)
V = Valeurs en milliers de dinars

Item		1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	Articles
Fish, fresh or frozen	Q	779	383	287	459	349	127	256	292	161	333	Q Poisson frais ou congelé
	V	491	251	188	289	233	90	129	140	72	207	V
Fish, dried, salted or smoked	Q	8 783	7 177	4 145	4 740	5 087	4 549	4 887	4 560	5 008	2 017	Q Poisson séché, salé ou
	V	9 841	7 877	2 902	3 661	3 776	3 830	4 029	3 986	4 767	2 052	V fumé
Fish, canned	Q	237	162	47	15	20	31	15	25	19	16	Q Poisson en conserves
	V	602	387	98	35	40	77	37	65	66	35	V stérilisées
Crustaceans and molluscs, fresh, frozen, dried or salted	Q	2	1	0	0	1	0	0	0	0	32	Q Crustacés et mollusques,
	V	3	1	1	0	1	0	0	0	1	33	V frais, congelés, séchés ou salés
Other edible aquatic animal products	Q	50	42	6	3	6	6	17	7	24	8	Q Autres produits comestibles
	V	337	255	76	39	64	43	42	37	71	65	V d'origine marine
Aquatic animal oils and fats	Q	5 408	4 483	4 466	5 259	9 989	23 532	18 021	13 990	7 626	5 867	Q Huiles et graisses de poissons
	V	4 645	2 893	1 971	2 768	4 105	11 435	9 416	7 703	4 599	3 118	V et d'animaux marins
Other aquatic mammal products	Q	1	1	2	2	2	13	8	5	2	2	Q Autres produits d'animaux
	V	10	8	21	22	13	48	20	11	13	13	V marins
Miscellaneous aquatic animal and plant products	Q	...	...	...	...	...	...	...	...	...	...	Q Produits divers provenant
	V	1 170	957	496	807	794	657	704	908	894	830	V de plantes ou d'animaux marins
TOTAL	Q	...	...	...	...	...	...	...	...	...	...	Q TOTAL
	V	17 099	12 629	5 753	7 621	9 026	16 180	14 377	12 850	10 483	6 353	V

SOURCE: Ministère des Finances, Section des douanes, Statistique du Commerce Extérieur du Royaume de Yougoslavie, 1930-39 (Belgrade: Imprimerie Nationale).

TECHNOLOGICAL PUBLICATIONS

FISHERIES IN GENERAL

Belgisch-Nederlandse Visserij-Almanak. P. Vandenberghe, H. Hartplein 11, Oostende, Belgium, 1949. 632 pp. In Dutch.

In addition to a complete list of fishing vessels in Belgium and the Netherlands, this book contains legislation concerning fisheries and social questions, as well as regulations on the sale of fish - regarding freshness, etc. - at the harbors.

. . .

Malayan Fisheries (A handbook prepared for the inaugural meeting of the Indo-Pacific Fisheries Council, Singapore, March 1949). Edited by G. L. Kesteven. Malaya Publishing House, Ltd., Singapore, 1949. 88 pp., illus. In English.

This book was prepared mainly for the inaugural meeting of the Indo-Pacific Fisheries Council. It also contains notes on earlier fisheries meetings in the region. In these notes is a considerable amount of information on current fishing methods and ways of preserving fish in the Indo-Pacific area. The book also gives a detailed description of the Malayan fisheries, with information on the types of nets and boats in use.

. . .

Annual Report of the Fisheries Research Board of Canada for the Year 1948. By the Chairman, G. B. Reed, and the Vice Chairman, J. R. Dymond...Fisheries Research Board of Canada, Ottawa, Ontario, Canada, 1949. 116 pp., illus. In English and French.

This report contains detailed accounts of the work being carried out in the three technological research stations under the Fisheries Research Board of Canada.

. . .

Les produits d'origine marine et fluviale. W. Besnard...Payot, 106, Boulevard Saint-Germain, Paris, France, 1948. 366 pp., illus. In French.

This book gives a description of various fishes, crustaceans, shellfish, seals, reptiles, corals, seaweed, etc., found in the sea and in rivers. In addition it contains notes on the chemical composition and nutritive value of these products and on their industrial utilization.

. . .

The Fisheries of Muscat and Oman. G.C.L. Bertram...Obtainable from the Director of Revenues to the Sultan of Muscat and Oman, Muscat, South-East Arabia, (1948 ?). 41 pp., illus. In English.

This report, which is the result of two months' investigation, describes various phases of the fisheries of Muscat and Oman. In addition to administrative and statistical information, it contains notes on technological problems such as the utilization of palm-frond boats and on the local sardine products (giving chemical composition, etc.), as well as analyses giving vitamin A content of liver oils obtained from sharks in the region.

. . .

The Spiny Lobster and Scale-Fish Industry of British Honduras. F. G. Walton Smith and Craig A. Gathman...Marine Laboratory, University of Miami, Coral Gables 34, Florida, March 1948. 29 pp. In English.

This report gives a general description of the spiny lobster, scale-fish, and shellfish industries of British Honduras. It contains suggestions on present fishing methods for catching spiny lobsters.

FISHING

The Production and the Fishing Methods of the Maine Herring Industry wi

Notes on the 1947 Season. Leslie W. Scattergood. Special Scientific Report No. 67...United States Department of the Interior, Fish and Wildlife Service, Washington 25, D. C., March 1949. 25 pp. In English.

This report deals mainly with catch statistics for the New England herring fisheries in the United States of America. In addition, it gives brief descriptions of the type of fishing methods in use in these fisheries.

. . .

Report of Alaska Exploratory Fishing Expedition, Fall of 1948, to Northern Bering Sea. J. G. Ellson, Boris Knake, and John Dassow. Fishery Leaflet 342...United States Department of the Interior, Fish and Wildlife Service, Washington 25, D.C., June 1949. 25 pp., illus. In English.

This leaflet reports on some exploratory fishing operations in coastal waters off Alaska. It gives information mainly about the actual results obtained in fisheries in the various areas. In addition, it contains notes on the use of the stern set type of trawl and on results obtained with fish frozen on board, both by brine freezing and freezing in air at 0° F. Results from thawing, filleting, and defreezing part of the air-frozen fish are also mentioned.

FISH CULTURE

Construction et Aménagement Piscicole des Etangs. Marcel Huet...Direction de l'Agriculture et de l'Elevage, Brussels, Belgium, 1948. 50 pp., illus. In French.

This pamphlet gives detailed instructions regarding the construction of various types of fish ponds. Pictures and charts show the layout of such ponds and details of the necessary parts for the construction.

MISCELLANEOUS PRODUCTS

The Sponge Industry of Florida. J.Q. Tierney. State of Florida Board of Conservation, Educational Series No. 2... Marine Laboratory, University of Miami, Coral Gables 34, Florida, 1949. 19 pp., illus. In English.

This pamphlet is published in an educational series and contains mostly general information regarding the sponge industry. Included are notes on catching, etc.

. . .

Official Publication of the Association of American Feed Control Officials, Inc., 1949. Copies may be obtained from The Secretary, L. E. Bopst, Association of American Feed Control Officials, Inc. College Park, Maryland, U.S.A., 1949. 153 pp., Price $5.00. In English.

This book contains general tentative regulations governing state feed controls in the United States. It shows samples of the types of labels and certificates used in such control work and gives definitions for the various types of feeds, including fish meal. It also contains papers on problems of the feed industry and a summary of the feed tax legislation in the different states of the United States. An analytical chapter gives complete instructions for the carrying out of feed analyses, including vitamin determination.

. . .

The Nutrition of Fish in Hatcheries A Literature Review. Neva Karrick. Fishery Leaflet 325...United States Department of the Interior, Fish and Wildlife Service, Washington 25, D. C., November 1948. 22 pp. In English.

The leaflet deals mainly with biological considerations but also has some information regarding the possibilities for the use of dried fish, fish offal, or fish by-products for the feeding of fish in hatcheries. It also refers to the preservation of these products for this purpose.

QUALITY CONTROL

Recording Color Changes in Frozen Pink Salmon. John A. Dassow and Maurice

E. Stansby. Fishery Leaflet 332...United States Department of the Interior, Fish and Wildlife Service, Washington 25, D.C., January 1949. 5 pp. In English.

The leaflet describes a laboratory procedure for determination of color in canned salmon.

Inspection of Canned Snoek for the Ministry of Food, London. G. M. Dreosti Memorandum No. 16...Fishing Industry Research Institute, Cape Town, Union of South Africa, August 1949. 6 pp. In English.

The procedures for inspection, including number of samples to be withdrawn, and tentative inspection standards are outlined in detail.

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The FAO Fisheries Division will welcome comments and suggestions for this Bulletin. Address: Fisheries Division, Food and Agriculture Organization of the United Nations, 1201 Connecticut Avenue, N.W., Washington 6, D. C., U.S.A.

OTHER FAO FISHERIES PUBLICATIONS

FAO Yearbook of Fisheries Statistics - 1947

Published in Washington, D.C., in August 1948. Bilingual, English and French, with Preface in Spanish. Photo-offset. 368 pp. Price US$4.00 or the equivalent.

Part I of this volume consists of 143 statistical tables on the import and export trade of 61 countries in fish and fisheries products since 1930. Part II contains 86 tables on (a) landings and(b) miscellaneous subjects such as the number of fishermen, craft, etc., for about 20 countries.

Salted Cod and Related Species

FAO Fisheries Study No. 1, English edition published in July 1949, Washington, D.C. Printed. xii +196 pp. Price US$2.00 or the equivalent.

A comprehensive study of the factors influencing production and trade of salted cod and related species during the interwar period, and an analysis of present problems of the salted cod industry. 67 pages of statistical tables.

World Fisheries Abstracts

Beginning with the November-December issue, 1949.

A bimonthly review of the technical literature on fishing and the fishing industry. The Abstracts are prepared and arranged for card filing.

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